

DOUBLE-TANK TYPE OMNIDIRECTIONAL ULTRASONIC OSCILLATING TANK

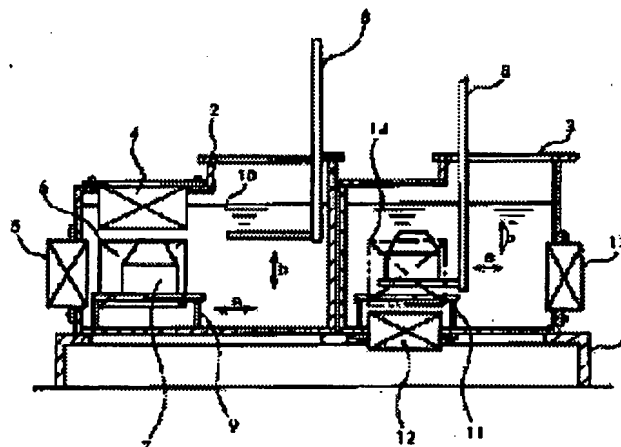
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Abstract of JP9220545

PROBLEM TO BE SOLVED: To improve the cleaning power and uniformize the distribution of ultrasonic sound pressure by installing ultrasonic oscillating members in an upper part, a left side face, a rear face, etc., of a tank and also in a lower part, a right side face, a front face, etc., of a neighboring tank and carrying out ultrasonic cleaning of six faces of a member to be cleaned in a manner of face-to-face oscillation to the member to be cleaned in synchronized two tanks.

SOLUTION: Ultrasonic oscillators are installed in an upper part 4, a left side face part 5, and a rear face part 6 in the left side part from a transportation inlet of a cleaning tank 2 and also installed in a lower part 12, a right side face part 13, and a front face part 14 of a cleaning tank 3. When a member 7 to be cleaned is transported and set in a work die 9 in the cleaning tank 2 by a transportation arm 8, cleaning of the upper face, the left side face, and the rear side face of the member 7 to be cleaned is carried out at high ultrasonic efficiency with ultrasonic waves which respectively proceed straightforward. Then, the member 7 to be cleaned is set on a work die 11 in the cleaning tank 3 by a transportation arm 8 and ultrasonic cleaning of the lower part face, the right side face, and the front face of the member 7 to be cleaned is carried out with ultrasonic waves proceeding straightforward. Consequently, powerful ultrasonic cleaning of all of the faces, that are six surfaces, of the member 7 to be cleaned can be carried out.



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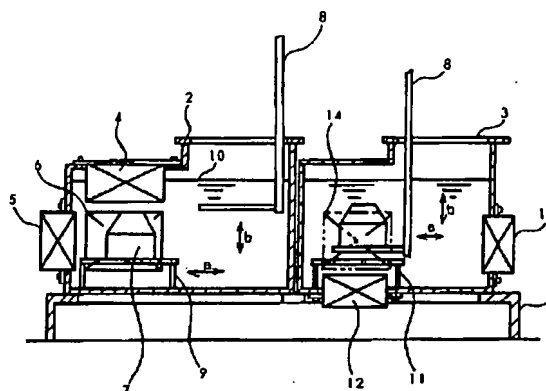
(54) 【発明の名称】 二槽式全方向超音波発振槽

(57) 【要約】

【課題】 1つの槽内で、発振器同士が対向する事無く3方向からの発振ができ、上部からの発振を可能とする。

【解決手段】 同期させた二つの洗浄槽を設置し一方の槽には、上部4、左側部5、後方部6に超音波発振器を設け、他方の洗浄槽には、下部12、右側部13、前部14にそれぞれ超音波発振器を設けた六面方向発振式洗浄槽構造。

図 1



1…ベース 2…A洗浄槽 3…B洗浄槽 4…上部面発振器
5…左側面発振器 6…後方面発振器 7…洗浄部材 8…搬送アーム
9…A槽ワークダライ 10…洗浄液面 11…B槽ワークダライ
12…下部面発振器 13…右側面発振器 14…前面発振器
a…アーム横移動 b…アーム上、下移動